MR Form 3 (Revised 1984)



DIVISION OF OIL, GAS & MINING

ANNUAL OPERATIONS AND PROGRESS REPORT

From Month/Year 6-85 to Month/Year 1-86

(To be submitted for <u>each</u> mining operation at the end of <u>each</u> calendar year to the Division at this <u>address</u>:)

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING
355 West North Temple
3 Triad Center, Suite 350
Salt Lake City, Utah 84180-1203
(801) 538-5340

OPERATOR:	Lone Star Industries	MINE NAME:	Quarry Antone
ADDRESS:	615 W 800 S Salt Lake City, UT 84104	4	
PERMIT NUME	BER AND DATE OF PERMIT: PI	RO/045/021	
REPRESENTAT	TIVE: J. Lake NE ½ 18 NW ½ 17 TOWNSHIP(S):	2 S	RANGE(S): 6 W
MINERAL(S)	MINED: Shale		
STATE AND/C	OR FEDERAL MINERAL LEASE NUMB	ERS:	
SPECIAL USE	E PERMITS AND/OR RIGHTS-OF-WA	Y:	

Section 40-8-15 and Rule M-8 of the Utah Mined Land Reclamation Act, requires each operator to include with this report an <u>up-dated map and plan</u> prepared in accordance with Rule M-3, as outlined in the requirements for annual report maps in Appendix I, providing a detailed status of all mining and reclamation activities which have occurred during the past year.

The report should include:

MINING:

(a) Tabulation of acreage disturbed (by pits, roads, facilities, etc.) during the report period with illustration on a current map.

Disturbance	Acreage
Pit	1.38
Roads	• 72
Facilities	
Waste Dumps	
Other Topsoil storage	.57

(b) Tabulation of acreage affected to date (by years).

Date by Year	Acreage (Total
1975	
1976	
1977	
1978	
1979	
1980	
1981	
1982	
1983 1985	2 67
	4.07

(c) Tabulation of all topsoil (new) stockpile volumes (see chart below) and date of stockpiling.

SOIL TABULATION CHART

	Area
Area Affected (in mining sequence) (If more space is needed, please attach.)	1 2 3 etc.
Acreage of Area	2.67
Depth of Topsoil Removal (inches)	12" apr.
Depth of Topsoil Replacement (inches)*	12"
Estimate of Topsoil Volume Salvaged (yd ³ or ac ft)	2240 yd ³
Volume Actually Salvaged (yd ³ or ac ft)	2200 yd ³
Volume Required for Reclamation (yd^3 or ac ft)	2200 yd ³
Surplus or Deficit Volume (yd3 or ac ft)	0
Storage Status (short- or long-term)	2240 yd ³

Soil Tabulation Chart (continued)

Area Affected (in mining se	equence)	Area 1 2 3 etc.
Storage Location		See Map Sec. 2
Area Where Soil Has Been Us	sed (if not stored)	N/A
Running Total (all stockpil	es) (ya ³ or ac ft)	17,000 yd ³
Short-term		15,000 yd ³
Long-term		2,200 yd ³
*Of previously stripped are	ea recently reclaimed.	
(a) Tabulation of all (placement and illustration		pit spoil volumes, date of
Area .	Date	Acreage
N/A		
(e) Tabulation of quant	city of commodity mined	
	Commodity	Tonnage
(Mined)	Shale Shale	26,000 ton 19,883 ton
(f) Description of any illustration on a map, inc		ng the report period with
l. Buildings and n/a	support facilities.	
2. Roads. Haul road-be .72 acres.	eginning at the north p There was an existing	roperty line to the mine sit road to this point.

	Diversion ditches, collector ditches, interceptor ditches, etc Road and mine site did not disturb existing drainage.
4.	Culverts. One culvert was used to improve roadway
5.	Sediment ponds, containment ponds. n/a
6.	Monitoring sites (vegetative, air quality, surface subsidence, surface water or ground water, etc.). n/a
7.	Topsoil stockpiles. Topsoil was stored next to the stockpile, (see map, sec. 2) approximately 2200 yd3
(g) Desc r mitigati l.	ription of any environmental problem areas with a proposed plan on and illustration on a map, including, but not limited to: Pit stability problems. Highwal! sluffing, proper slope must be maintained

-	N/A		am failure, etc.
4.	Slumping, sliai		minina
	Only in pit are	ea, during acti	ve mining.
5.	Revegetation pr	roblem areas.	
	Rock ledges cre	eated from mini	ng sequence.
6.	Existence and 1	location of uns	uitable (toxic) overburden.
	None	rocacton or ano	artable (toxic) everbarden.
_AMATION:			
		reace reclaimed	during the report period with
(a) Tabu			during the report period with
(a) Tabu Ustration	lation of the acr n on a map, distir	nguishing between	en:
(a) Tabu	lation of the acr n on a map, distir		en:
(a) Tabu Ustration	ulation of the acr n on a map, disting Backfilled, gra	nguishing between	en:
(a) Tabu Ustration	alation of the acr n on a map, disting Backfilled, gra	nguishing between	red areas.
(a) Tabu Ustration	ulation of the acr n on a map, disting Backfilled, gra	nguishing between	red areas.
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(a) Tabu Ustration	ulation of the acr n on a map, distin Backfilled, gra	nguishing between	red areas.
(a) Tabu Ustration	ulation of the acr n on a map, distin Backfilled, gra	nguishing between aded and contour	red areas.
(a) Tabu	Backfilled, gra	nguishing between aded and contour rea	en: red areas. Acreage
(a) Tabu	Backfilled, gra N/A Topsoiled areas	nguishing between aded and contour	red areas.
(a) Tabu	Backfilled, gra	nguishing between aded and contour rea	en: red areas. Acreage
l.	Backfilled, gra N/A Topsoiled areas	nguishing between aded and contour rea	en: red areas. Acreage
(a) Tabu	Backfilled, gra N/A Topsoiled areas	nguishing between aded and contour rea	en: red areas. Acreage

	3. Seeded are	eas.			
		Area	<u> </u>	Acreage	
	N/A				
	4. Reseeded a	areas (areas pr	eviously seeded	i, then seeded ac	gain).
		Area	<u> </u>	Acreage	
	N/A				
(b) to date	Tabulation of to by years with il	otal acreage re Llustration on	claimed (seeded an updated map:	with permanent	seed mix)
	Year			Acreage	
	1975	5		Ø	
	1976	6			
	1977	7			
	1978	3			
	1979	;			
	1980				
	1981				
	1982				
	1983				
	1984		_		
(c) perioa,	Description of t including:	the reclamation	procedures use	ed during the rep	oort
	l. Average de	epth of topsoil	applied.		
42			200		
	2. Type of se	eea (species) u	sed for seeding	during the repo	ort period.

	Date of seeding during the report period.
pring	n/a
all _	n/a
	4. Seeding procedures used.
dana broa	adcast or drilled or any other). n/a
:	5. Rate of seed application.
ounds Per	r Acre of Pure Live Seed (PLS) (if varied, please explain) n/a
	6. Type and rate of fertilizer applied. n/a
	7. Type and rate of mulch applied. n/a
8	8. Rate of irrigation water applied, if any. Please describe any type of sprinkling, or water applied (water truck, etc.). n/a
	9. Revegetation test plot information. ensity, productivity, etc.)

his should 1.	ription of results of previous revegetation efforts, including: be done as applicable.) Types (species) of seed that have germinated and are growing. n/a Types (species) of seed that are not growing successfully. n/a Areas experiencing problems with weeds and weed types. n/a
his should 1. 2.	Types (species) of seed that have germinated and are growing. Types (species) of seed that are not growing successfully. n/a Areas experiencing problems with weeds and weed types. n/a
his should 1. 2.	Types (species) of seed that have germinated and are growing. Types (species) of seed that are not growing successfully. n/a Areas experiencing problems with weeds and weed types. n/a
2.	Types (species) of seed that are not growing successfully. n/a Areas experiencing problems with weeds and weed types. n/a
3.	Areas experiencing problems with weeds and weed types.
	Areas experiencing problems with weeds and weed types.
	n/a
	n/a
4.	
	Significant erosional problems.
5.	Areas of unsuitable overburden on the surface as related to revegetation failure. n/a
6.	Procedures used or proposed to correct these problems.

	7. Acreage a revegetat	and dates of related areas.	ease (upon ins	spection by the State) of
Area	n/a	Date	<u> </u>	Acreage
	8. Results o	of soil analysis.		
replacement	nt, seeding. e	Zeu costs for ea	ch operation	red during the report (i.e., grading, topsoil turbance (i.e., spoil, basis.
3. Contou 4. Topso: 5. Seedir A. Se B. Mu	illing uring il Replacement ng eedbed Prepara ulch ertilizer		Acres	Cost/Acre
BOND INFOR	RMATION:			
o a s f	changes to the actual/estimate section above.	MRP have occurred reclamation of the cate of the sibility for a part of the	ing and Reclam ed, including osts as outlir e release of r	if required in the mation Plan (MRP) or if a detailed itemization of med in the RECLAMATION revegetated areas from elease, if applicable,
Present Bo	na	Amount	Туре	Date Posted

Increased	oisturbance.	if	anv
TI 101 CG 3CG	ato cat parice .		QIIIY

Increased Bond Amount (attached reclamation estim	ate).
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B. Bond release.

Acres	Bond Amount Released	Date
		-

ADDITIONAL INFORMATION:

Supply any additional information as requested by the Division related to:

- (a) Permit stipulations (status).
- (b) Other special conditions (status).

Note

During 1985, the Quarry Antone was a prospecting project, to prove the value of the material. Further drilling and research is still required.

APPENDIX I

ANNUAL REPORT MAPS

- 1. Maps must be clear and legible contour maps or recent aerial photos. The scale should be 1 inch = 500 feet to adequately show topographic features.
- Map sheets should be of a reasonable size, not to exceed 48 inches on a sige.
- 3. Maps must have a title block with:
 - A. Map title.
 - B. Name and address of permittee.
 - C. Permit and amendment numbers.
 - D. Annual report period.
 - E. Scale, north arrow, contour interval, date of photography, etc.
- 4. All maps must show:
 - A. Legal subdivisions.
 - B. Permit area boundary clearly shown and labelled.
 - C. Amendment areas clearly shown and labelled.
 - D. Contour features.
- 5. The following features should all be clearly identified:
 - A. Topsoil stockpiles (numbered and with volumes).
 - B. Settling ponds and sediment control structures.
 - C. Haul roads.
 - D. Pits identified by location, name, number, etc.
 - E. Ramps (numbered).
 - F. Out-of-pit spoil dumps.
 - G. All waste disposal sites including, but not limited to:
 - 1. Landfill sites.
 - 2. Carbonaceous waste dumps.
 - H. Diversion ditches.
 - I. Monitoring sites.
- 6. All areas to be affected by mining and reclamation in the coming year should be outlined and labelled.